| POSITION                  | - INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|------------|--------|----------|--|--|--|--|--|
| FEE DETERMINATION         |            |        |          |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |            | ,      |          |  |  |  |  |  |
| FORMALITY REVIEW          | A.         | Tc 877 | 06-26-01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | 8/16       | 1091   | 11-27-01 |  |  |  |  |  |
|                           | lust -     | 571    | 01/09/02 |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|      |               |              |                 |          |          | •        |          |          |              |           |          | • • • • • | R             | ejeo     | cte       | t        |           |              |          | N        |                |          | • • • • • | ••••     | • • • • • • • |               | No       | п-(      | elec     | ted      |          |          |              |           |                |              |          |
|------|---------------|--------------|-----------------|----------|----------|----------|----------|----------|--------------|-----------|----------|-----------|---------------|----------|-----------|----------|-----------|--------------|----------|----------|----------------|----------|-----------|----------|---------------|---------------|----------|----------|----------|----------|----------|----------|--------------|-----------|----------------|--------------|----------|
| 4    |               |              |                 |          |          | =        |          |          |              |           |          | • • • • • | A             | llov     | ved       |          |           |              |          | ı        |                |          |           |          |               |               |          |          |          | nce      | ;        |          |              |           |                |              |          |
| Ĩ    |               |              |                 |          |          | _        | T)       | hrc      | ugl          | h nu      | mera     | al).      | C             | anc      | ele       | d        |           |              |          | Α        |                | ••••     |           |          |               |               | Αp       | pe       | al       |          |          |          |              |           |                |              |          |
| j    |               |              |                 |          |          | ÷        |          |          |              |           |          |           | R             | est      | rict      | ed       |           |              |          | 0        | •••••          |          |           |          |               |               | Ob       | jec      | ted      |          |          |          |              |           |                |              |          |
| Î.   |               | <b>5</b> ) . | el.             |          |          |          |          |          |              |           |          |           |               |          |           |          |           |              |          |          |                |          |           |          |               |               |          |          |          |          |          |          |              |           |                |              |          |
|      | Claim         | 1            | 7               |          |          | Dat      | <u>-</u> |          |              |           |          | -         | Clai          | m        |           |          |           |              | Dat      | е        |                |          |           |          |               | Clai          | m        |          |          |          |          | Dat      | e            |           | _              |              | _        |
|      |               | 7            | 69              | 5        |          |          |          |          | Π            | П         | $\dashv$ | Ì         | _             |          |           |          |           |              |          |          |                |          |           |          |               |               |          | -        |          |          |          |          | $\bigcap$    |           |                |              | Г        |
|      | nal           | 13           | 3               | 5/3      | 1        |          |          |          |              |           |          |           | =             | Original |           |          |           |              |          |          | ŀ              |          |           |          |               | _             | Original |          |          |          |          |          |              |           | '              |              | l        |
|      | Jai ja        | 1/6          | \$              | 04       |          |          |          |          |              |           |          |           | Final         | 溪        |           |          |           |              |          |          |                |          |           |          |               | Final         | 뙭        |          | i        |          |          |          |              |           |                |              |          |
|      | <u> </u>      | •            | N               | N        |          |          |          | :        | -            |           | $\dashv$ | 1         | -             | 51       |           |          | _         |              |          |          | $\dashv$       | -        | -         | _        |               |               | 101      | -        | -        |          | -        |          | $\vdash$     | Н         | $\vdash$       |              | ⊢        |
|      | t⊒≸           | 1            | ۱ ۱             |          | Н        | $\dashv$ |          | ٠        | ┢╌           | Н         | $\dashv$ | 1         |               | 52       |           | -        |           | -            |          |          |                |          | -         |          |               |               | 102      |          |          |          | ├        |          |              | <b></b> - |                | -            | ⊢        |
| _    | 4             | ╂╌           |                 | <b>/</b> | Н        | $\dashv$ | $\dashv$ |          | $\vdash$     | Н         | $\dashv$ | ŀ         |               | 53       | -         | $\dashv$ | -         | -            | -        | -        |                |          |           |          | İ             |               | 103      | _        |          |          | -        |          | H            | ┝┈        | ₩              |              | ⊢        |
|      | 1             | ₩            | -1              |          | $\vdash$ |          | -        | _        | <del> </del> |           | -        | ŀ         |               | 54       |           | -        |           | $\vdash$     | _        |          | -              |          | Н         |          |               |               | 104      |          |          |          |          |          | $\vdash$     | <u> </u>  | H              | <b>!</b>     | ⊢        |
|      | -7            | Η-           | Н               |          | Н        | $\dashv$ |          |          | $\vdash$     | $\square$ | -        | ŀ         |               | 55       | -         | _        |           |              |          | -        |                |          |           |          |               |               | 05       |          |          | _        | H        |          | $\vdash$     | H         | Н              | -            | ⊢        |
|      | - 🚶           | H            | Н               |          | $\vdash$ |          | _        | _        | ⊢            | $\square$ | -        | ŀ         |               | _        | _         |          |           |              | -        |          | -              |          | H         |          |               |               | _        |          |          | _        | _        | <u> </u> | Ш            |           | Н              | ⊢            | <u> </u> |
|      | 4             | $\vdash$     | Н               |          |          | _        |          |          | ┝            | Н         | _        |           |               | 56       |           |          |           | Ш            |          |          |                |          |           | _        |               |               | 06       |          |          | -        | -        | _        | $\sqcup$     | _         |                |              | L        |
|      | . +           | Ц.           | Ш               |          |          |          | _        |          | <u> </u>     | $\vdash$  | _        | ļ         |               | 57       |           |          |           | $\vdash$     | ш        | -        |                |          |           |          |               |               | 07       | _        |          |          |          |          | <u> </u>     | <u> </u>  | ╙              | <u> </u>     | ⊢        |
|      | B             | Н            | μļ              |          | Н        | _        |          | !        | <u> </u>     | $\vdash$  |          | ŀ         |               | 58       | _         |          |           |              | _        |          | _              |          |           |          |               | ┷             | 08       |          |          | _        |          |          | Ш            | <u> </u>  | لـــا          | _            | Ļ.       |
|      | 19            | -            | Ľ               |          | Ш        | _        | _        |          |              | $\square$ |          |           |               | 59       |           |          |           |              |          | Ш        | _              |          |           |          |               |               | 09       |          |          |          |          | _        | $\sqcup$     | <u> </u>  |                | <u> </u>     | L        |
|      | 10            | Ш            | Ņ               | _        |          | _        | _        |          | L            |           |          | ļ         |               | 60       |           | _        |           |              |          | _        |                |          |           |          |               |               | 10       | _        |          |          |          | Щ        |              | _         |                | L_           | L        |
|      | \$            | Ш            |                 | _        |          |          |          |          |              | Ш         |          |           |               | 61       |           |          |           | <u> </u>     | ļ        | _        |                |          |           |          | •             |               | 11       | _        |          |          |          |          |              |           |                | <u> </u>     | L        |
|      | 18            | 1            | !               |          | Ш        | _        |          |          | L            | $\sqcup$  |          | ļ         |               | 62       |           | _        | _         | L_           |          |          | _              |          | L         |          |               |               | 12       |          |          |          |          |          | $oxed{oxed}$ | ∟'        | $oxed{oxed}$   |              | L        |
|      | 18            | Ц.           | il.             | ···      |          | _        |          |          |              |           |          | ļ         | _             | 63       |           |          |           | L.           |          |          |                |          |           |          |               |               | 113      |          |          |          |          |          |              |           |                | L            | L        |
|      | 1             | L            | Ш               | L.,      |          |          |          |          |              | Ш         |          |           |               | 64       |           |          |           |              |          |          |                |          |           |          |               | Ŀ             | 114      |          |          |          |          |          |              |           |                |              |          |
|      | 羧             | 辶            |                 |          |          |          |          |          |              |           |          |           |               | 65       |           |          |           | <u> </u>     | _        |          |                |          |           |          |               |               | 15       |          |          |          |          |          |              |           |                |              | Γ        |
|      | 16            |              |                 |          |          |          |          |          |              |           |          |           |               | 66       |           |          |           |              |          |          |                |          |           |          |               |               | 16       |          |          |          |          |          | П            | П         |                | Г            | Γ        |
|      | K             |              | N               |          |          |          |          |          |              |           |          | .[        |               | 67       |           |          |           |              |          |          |                |          |           |          |               | [ ]           | 17       |          |          |          |          |          |              |           |                |              | Γ        |
|      | 19            | $\prod$      | W,              |          |          |          |          |          |              |           | $\neg$   | ĺ         | T             | 68       |           |          |           |              |          |          |                |          |           |          |               | i             | 18       |          |          |          |          |          |              |           |                |              | Γ        |
|      | 19            | П            | I               |          |          |          |          |          | :            | П         |          | Ī         |               | 69       |           |          |           |              |          |          |                |          |           |          | Ì             | T.            | 19       |          |          |          |          |          | П            |           |                |              | Г        |
|      | <u> 2</u>     | П            |                 |          |          |          |          |          |              |           |          |           | $\overline{}$ | 70       |           |          |           | -            | П        |          |                |          |           | Г        | 1             |               | 20       | _        |          |          |          |          |              |           |                |              | T        |
|      | <u>a</u>      | H            |                 |          | $\vdash$ | -        |          |          |              | $\Box$    |          | Ì         |               | 71       |           | _        |           | -            | -        | -        | -              |          | _         | $\vdash$ | ł             | $\rightarrow$ | 121      |          | -        | _        |          |          | Н            | H         |                |              | ┢        |
|      |               | H            |                 |          |          |          |          | $\vdash$ | ┢            | Н         |          | Ì         |               | 72       |           |          |           |              |          | Н        | _              |          |           | ┝        |               |               | 22       | _        |          |          |          |          | $\vdash$     | H         |                |              | $\vdash$ |
|      | 78            | $\vdash$     |                 | -        |          |          | -        | _        |              | Н         |          |           |               | 73       |           |          |           |              |          |          |                | _        | Н         | $\vdash$ |               |               | 23       |          |          | $\vdash$ | -        |          | $\vdash$     | Н         | $\vdash$       | ┢            | ╁        |
|      |               | H            | -               |          | Н        |          |          | -        | -            |           | $\dashv$ | 1         |               | 74       |           | _        |           | H            |          |          | ᅥ              |          | -         | -        |               | 1 1           | 24       | _        | -        |          | H        |          | Н            | $\vdash$  |                | ├            | ╁╴       |
|      | 1             | Н            | Н               | -        | -        |          | -        |          |              |           | $\dashv$ | 1         |               | 75       |           |          |           | $\vdash$     |          |          |                |          |           | —        | ł             |               | 25       |          |          |          | -        |          | <u> </u>     | H         | $\vdash$       |              | ⊢        |
| •    | 温             | H            | Н               |          | -        |          | -        |          |              | $\vdash$  |          | }         |               | 76       |           |          | -         | $\vdash$     |          |          | -              |          |           |          | ł             | _             | 26       | _        |          |          | $\vdash$ |          | $\vdash$     |           | $\vdash$       | <del> </del> | ⊢        |
|      | 司             | -            | Н               |          | $\dashv$ | $\dashv$ | _        |          |              | Н         | _        | ŀ         |               | 77       |           |          |           | <del> </del> |          | -        |                |          |           |          | {             |               | 20<br>27 |          |          |          | H        | $\vdash$ | -            | <b>-</b>  | Н              | H            | ⊢        |
|      | 20            | H            |                 |          | $\dashv$ | $\dashv$ |          | _        | -            | $\vdash$  |          | ł         |               | 78       |           | -        |           | -            | -        |          | $\dashv$       |          |           | _        | ł             |               | 28       |          |          | -        |          |          | Н            |           | Н              | -            | ⊢        |
|      | 26            | H            |                 | _        | $\dashv$ | -        |          | $\vdash$ |              | H         | _        | ŀ         |               | 79       |           |          |           | H            |          |          |                |          |           |          |               |               | 29       | _        |          |          | $\vdash$ |          | $\vdash$     |           |                | -            | ⊢        |
|      | 3             | $\vdash$     | 14              |          | $\dashv$ | $\dashv$ | _        | -        | -            |           | _        | ŀ         |               | 80       | -         |          |           | $\vdash$     |          |          | -              |          | -         | _        |               |               | 30       | $\dashv$ |          |          |          |          | H            | <u> </u>  |                |              | ⊢        |
|      | - 2           | H            | $\mathbb{H}$    |          |          |          |          | <u> </u> |              | H         | $\dashv$ | ŀ         |               | 81       | _         | _        |           | <u> </u>     | -        | $\dashv$ |                |          | _         |          | -             | -             | _        |          | _        |          | Н        |          | $\vdash$     |           |                |              | ⊢        |
|      | 4             | _            | 4               |          |          |          |          |          | <del> </del> |           | _        | ŀ         |               |          |           | _        |           | ļ            | _        |          |                |          |           |          |               |               | 31       | -        |          | _        | $\vdash$ |          | $\vdash$     | L         | لـــا          |              | L        |
|      | 4             | -            | 1               |          | -        |          | -        |          | ├-           |           |          | ŀ         |               | 82       |           |          |           |              | Ш        |          | -              |          |           | _        |               |               | 32       | _        | -        |          |          |          | ш            | L         | Ш              | Ш            | ┡        |
|      | _ <b>-</b> ∓- |              |                 |          | -        |          |          | _        | <u> </u>     |           | _        | -         |               | 33       | 4         | _        | _         |              | _        |          |                | _        |           |          |               |               | 33       | -        |          |          | $\vdash$ |          | Ė            | <u> </u>  |                | <u> </u>     | ┡        |
|      | 3#            | <u> </u>     | Ш               |          |          | _        | -        | _        | <u> </u>     | $\sqcup$  | _        | -         |               | 34       |           |          | _         |              |          |          | $\dashv$       | _        | П         |          |               |               | 34       | _        |          |          | Щ        |          | <u> </u>     | '         |                |              | L        |
|      | 35            | 3            | <b>V</b>        |          | $\dashv$ |          | _        |          | <u> </u>     |           | 4        | -         |               | 35       |           |          |           |              |          | _        | $\dashv$       | _        |           | _        |               |               | 35       | _        | _        |          | L        |          |              | ш         |                |              | L        |
|      |               | -            | Ш               | /        | -        |          | _        |          | L.           | $\sqcup$  | _        | ļ         |               | 36       |           | _        |           |              |          |          | _              |          |           |          |               |               | 36       |          |          |          | Ц        |          | Ш            | Ш         |                | Ŀ            | L        |
|      | 37            |              |                 | 4        | _        | _        |          |          | ļ            | Ш         | _        | ļ         |               | 37       |           |          |           |              |          | _        | _              |          |           |          |               | 1             | 37       |          |          |          |          |          |              |           |                |              | L        |
|      | 38            |              |                 | 44       | $\perp$  | _        |          |          | L            |           | _        | ļ         |               | 38       |           |          | _         |              |          |          | _              |          |           |          |               | 1             | 38       | _        | _        |          | Ш        |          |              |           |                |              | L        |
|      | 39            |              | $\Box$          | Ш        | _        | _        | _        | _        | <u> </u>     | Ш         | _        |           | $\rightarrow$ | 39       |           |          |           |              |          | _        |                |          |           |          |               | !             | 39       |          |          |          |          |          |              |           |                |              | L        |
|      | 40            |              |                 |          |          |          |          |          |              |           |          |           |               | 90       |           | `        | - [       |              |          |          |                |          |           |          |               | h             | 40       |          | 1        |          | ŀ        |          |              |           |                |              | l        |
| \    | <b>(4</b> )   |              |                 | П        | _7       |          |          |          |              | ļŢ        |          | Ī         | Ţ             | 91       |           | П        |           |              |          |          | $\neg$         |          |           |          |               | 1             | 41       | $\neg$   |          |          |          |          | П            |           | П              |              | Γ        |
| ,    | 42            |              | $\Box$          | ١,       | $\Box$   |          | _        |          | _            | П         | $\neg$   | -         | $\neg$        | 92       | $\neg$    |          | _         |              |          |          | T              |          |           |          |               |               | 42       | 7        |          |          | П        | $\Box$   |              | П         | Н              |              | r        |
| لم   | 43            |              |                 | 7        | $\neg$   | $\dashv$ | $\neg$   | _        |              | $\Box$    | $\neg$   | ı         | _             | 93       |           |          |           |              |          |          | 一              |          |           |          |               |               | 43       |          | _        | _        | Н        |          | $\vdash$     | $\vdash$  | М              |              | T        |
| 10   | 44            |              |                 |          | $\dashv$ |          | $\neg$   |          |              | П         |          | ı         |               | 94       | $\neg$    | $\neg$   | $\exists$ | $\dashv$     |          |          |                |          |           |          |               |               | 44       | -        |          | _        | H        |          | $\sqcap$     | $\vdash$  | r              |              | t        |
| 7:   | 45            | Н            | H               | $\neg$   | +        |          |          |          |              | $\vdash$  |          | ŀ         |               | 95       | _         | $\neg$   | -         | $\dashv$     | -        | _        | +              | $\dashv$ | $\vdash$  | H        |               |               | 45       |          | $\dashv$ |          | Н        | -        | $\vdash$     |           | $\vdash$       | $\vdash$     | $\vdash$ |
| 1/20 | 46            |              | H               | _        | $\dashv$ | $\neg$   | $\neg$   |          |              |           |          | ŀ         | $\rightarrow$ | 96       | $\exists$ | $\neg$   | $\dashv$  |              |          | _        | <del>-  </del> | $\dashv$ | $\dashv$  |          |               | _             | 46       | -        |          |          | H        |          |              |           | Н              | $\vdash$     | Η-       |
| /    | 47            | М            |                 |          | -        | $\dashv$ |          | Н        | -            | $\vdash$  | $\dashv$ | ŀ         |               | 97       | $\dashv$  | -        | $\dashv$  |              | $\vdash$ | 一        | <del>-</del>   | $\dashv$ |           |          |               |               | 47       | $\dashv$ |          |          | Н        | -        | $\vdash$     |           | $\vdash$       | $\vdash$     | -        |
| رج د | 48            | $\vdash$     |                 | -        | -+       | $\dashv$ | $\dashv$ |          | $\vdash$     | $\vdash$  |          | ŀ         | _             | 98       | $\dashv$  | $\dashv$ | $\dashv$  | $\vdash$     | $\vdash$ | $\dashv$ | $\dashv$       | $\dashv$ | $\vdash$  |          |               |               | 48       | -        |          |          | Н        | $\dashv$ | $\vdash$     | $\vdash$  | $\vdash$       | Н            | $\vdash$ |
|      | 49            | Н            | $\vdash$        | -        | -        | $\dashv$ | $\dashv$ | -        | $\vdash$     | H         | $\dashv$ | ŀ         |               | 99       | $\dashv$  |          |           |              |          |          | $\dashv$       |          | $\vdash$  |          |               | _             | _        | $\dashv$ |          | -        | ┝╌┤      |          | $\vdash$     | H         | $\vdash\vdash$ | Н            | -        |
| 1    | 50            | $\vdash$     | $\vdash \vdash$ | -        | -        |          | $\dashv$ |          | -            | $\vdash$  | $\dashv$ | +         | _             | 00       |           | $\dashv$ | $\dashv$  | $\vdash$     | $\dashv$ | $\dashv$ |                | $\dashv$ | Н         |          |               |               | 49<br>50 | $\dashv$ | $\dashv$ | -        | $\vdash$ |          | $\vdash$     | $\vdash$  | $\vdash$       | Н            | -        |
|      |               | -            | Щ.              |          |          | _        |          | _        | ۰            | ш         |          | Ĺ         |               | ೭೭       |           |          |           |              | 1        |          |                |          |           |          | 1 1           |               | JU       |          |          |          |          |          |              |           |                | ш            | _        |

If more than 150 claims or 10 actions staple additional sheet h re